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(71) Applicant: **NIPPONDENSO CO LTD**

(72) Inventor: **TAGUCHI TAKEYASU**  
**NAITO TOSHIHARU**  
**TOKUDA HIROMI**

**(54) TIRE AIR PRESSURE DETECTION DEVICE**

**(57) Abstract:**

**PURPOSE:** To enable a tire pressure to be detected indirectly and improve its detection accuracy.

**CONSTITUTION:** A title item is provided with speed sensors 2 and 3 which output a signal according to a rotary speed of a tire and an electric control device 4 which performs a specified operation processing by inputting a signal from the speed sensors 2 and 3. The electronic control device 4 performs operation of a wheel speed based on an output signal of the speed sensors 2 and 3 and at the same time performs frequency analysis of the calculated wheel speed, and then calculates a resonance frequency of a spring lower part of the vehicle in up/down and forward/backward directions. Then, a state of tire pressure is detected based on the resonance frequency.

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